

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A method in a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record (EMR), the method comprising the steps of:

receiving a selection of the person from a list of patients displayed at a user interface window, wherein the list of patients is extracted from patient-procedure entries stored in a unified healthcare network, and wherein the patient-procedure entries associate the person with a medical procedure;

utilizing the medical procedure associated with the selected person to interact with one or more pre-built medication-procedure tables;

based on the interaction, accessing a list of possible medications, and dosages thereof, that may be are to be administered to the person prior to or during a for the medical procedure;

employing a control server to compare comparing the medication list to information in a the person's electronic medical record (EMR), wherein the EMR maintains dosage amounts of the medications the person is taking, foods the person is consuming, and allergies to medications the person is know to have; and

determining whether at least one match exists between any of the medications included in the list and the record EMR information, wherein the match relating to indicates the potential of an atypical clinical event occurring if

upon the associated medication were to be being administered to the person[[.]]; and if there is

when a match is determined to exist, outputting a response relating to each match, respectively, wherein the response indicates a specific medication involved in the match, a category of the specific medication, a type of match, and a severity of an associated atypical clinical event, and wherein the type of match is comprises at least one of drug-drug, drug-allergy, or drug-food.

2. (Currently Amended) The method of claim 1, wherein the step of accessing a list of possible medications comprises accessing a list of possible medications that may be administered to a specific person scheduled to undergo a specific type of medical procedure, and wherein the step of employing a control server to compare comparing the medication list comprises comparing the medication list to information in the specific person's EMR medical record.

3. (Original) The method of claim 1, wherein accessing a list of possible medications comprises accessing a list of possible medications that may be administered to any person scheduled to undergo a specific type of medical procedure, and further comprising the steps of selecting a person to undergo the medical procedure and receiving at least one of the medications from the list of medications.

4. (Original) The method of claim 1, wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, a drug-allergy interaction, and a drug-gene interaction.

5. (Original) The method of claim 1, wherein the medical procedure includes any medical procedure requiring the use of anesthesia.

6. (Original) The method of claim 1, wherein the list of possible medications includes medications used in a medical procedure involving anesthesia.

7. (Original) The method of claim 1, wherein the list of possible medications includes medications used in a radiologic medical procedure.

8. (Original) The method of claim 1, wherein the list of possible medications includes medications used in an oncologic medical procedure.

9. (Canceled).

10. (Currently Amended) The method of claim 1, wherein the response includes a listing of the match and the associated atypical clinical event, ~~and wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.~~

11. (Original) The method of claim 10, wherein the list of possible medications includes a dosage amount for each medication in the list, and wherein the response further includes an indication of the predicted severity of the atypical clinical event.

12. (Original) The method of claim 10, further comprising displaying information about at least one medication of the list of possible medications that is involved in the match upon selection of the medication at the response.

13. (Original) The method of claim 1, wherein the list of possible medications is received over a communication network from a remote computing device.

14. (Currently Amended) The method of claim 1, further comprising:  
selecting the person from ~~a-the~~ list of ~~person's-patients~~ scheduled for a medical procedure; and  
accessing the person's ~~medical-record-EMR~~ prior to comparing the medication list to information in the person's ~~EMR-medical record~~.

15. (Currently Amended) The method of claim 1, wherein the step of determining whether at least one match exists ~~includes-comprises~~:

querying a data structure containing information selected from one of the groups consisting of drug-drug interactions and drug-food interactions[[.]]; and  
determining ~~if-weather each~~ at least one match correlates with one of the drug-drug interactions and drug-food interactions.

16. (Currently Amended) The method of claim 1, further comprising retrieving ~~the-a~~ specific person's ~~medical-record-(EMR)~~ prior to comparing the medication list to information in the person's ~~medical-record-(EMR)~~.

17. (Currently Amended) A method in a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record, ~~the method~~ comprising the steps of:

accessing a pre-defined list of possible medications that ~~may-are to~~ be administered ~~prior to or during to the person for~~ a medical procedure;

employing a control server to compare comparing the medication list to information in a-the person's electronic medical record (EMR); and

determining whether at least one match exists between any of the medications included in the list and the record-EMR information, wherein the match relating to indicates the potential of drug-allergy reactions an atypical clinical event occurring if upon the associated medication were to be being administered to the person[.]; and if there is

employing the control server to compare the medication list to the information in the person's electronic medical record (EMR) upon being passed through an association table, wherein the association table includes information regarding adverse affects caused by medications interacting with each other and caused by a medication and a food interacting with each other;

determining whether at least one match exists between any of the medications included in the list and the EMR information passed through the association table, wherein the match indicates the potential of drug-drug or food-drug reactions occurring upon the associated medication being administered to the person; and

when a match is determined to exist, outputting a response relating to each match.

18. (Canceled).

19. (Original) The method of claim 17, wherein the medical procedure includes any medical procedure requiring the use of anesthesia.

20. (Original) The method of claim 17, wherein the list of possible medications includes medications used in a medical procedure involving anesthesia.

21. (Currently Amended) The method of claim 17, wherein the information in the person's ~~medical record~~EMR includes a list selected from one of the groups consisting of medications the person is currently taking or has recently taken, foods the person has consumed, the person's allergies to medications and genetic test information for the person.

22. (Currently Amended) The method of claim 17, wherein the response includes a listing of the match and ~~the~~an associated atypical clinical event, and wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.

23. (Original) The method of claim 22, wherein the list of possible medications includes a dosage amount for each medication in the list, and wherein the response further includes an indication of the predicted severity of the atypical clinical event.

24. (Original) The method of claim 22, further comprising displaying information about at least one medication of the list of possible medications that is involved in the match upon selection of the medication at the response.

25. (Currently Amended) The method of claim 17, further comprising:  
selecting the person from a list of person's scheduled for a medical procedure; and  
accessing the person's ~~medical record~~EMR prior to comparing the medication list to information in the person's EMR~~medical record~~.

26. (Currently Amended) The method of claim 17, wherein the step of determining whether at least one match exists ~~includes~~ comprises:

querying ~~a data structure~~ the associated table containing information selected from one of the groups consisting of drug-drug interactions and drug-food interactions[[,]]; and

determining ~~if each~~ whether at least one match correlates with one of the drug-drug interactions and drug-food interactions.

27. (Currently Amended) The method of claim 17, further comprising retrieving a specific person's ~~medical record~~ EMR prior to comparing the medication list to information in the person's ~~medical record~~ EMR.

28. (Currently Amended) The method of claim 17, further comprising modifying the medication list by adding or deleting medications from the list prior to comparing the medication list to information in the person's ~~medical record~~ EMR.

29. (Currently Amended) A method in a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record, the method comprising the steps of:

accessing a pre-defined list of possible medications that ~~may~~ are to be administered;

employing a control server to compare ~~comparing~~ the medication list to information in ~~a~~ the person's electronic medical record (EMR); and

determining whether at least one match exists between any of the medications included in the list and the record-EMR information, wherein the match relating to indicates the potential of drug-allergy reactions an atypical clinical event occurring if upon the associated medication were to be being administered to the person[.,.]; and if there is

employing the control server to compare the medication list to the information in the person's electronic medical record (EMR) upon being passed through an association table, wherein the association table includes information regarding adverse affects caused by medications interacting with each other and caused by a medication and a food interacting with each other;

determining whether at least one match exists between any of the medications included in the list and the EMR information passed through the association table, wherein the match indicates the potential of drug-drug or food-drug reactions occurring upon the associated medication being administered to the person; and

when a match is determined to exist, outputting a response relating to each match.

30. (Original) The method of claim 29, wherein the at least one medication is to be administered to the person prior to or during a medical procedure, and wherein the medication list includes a universal set of medications that may be administered regardless of the type of medical procedure.

31. (Currently Amended) The method of claim 29, further comprising, based on the determinations, selecting wherein the ~~an~~ atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, a drug-allergy interaction, and a drug-gene interaction.

32. (Original) The method of claim 29, wherein the at least one medication is to be administered to the person prior to or during a medical procedure, and wherein the medical procedure includes any medical procedure requiring the use of anesthesia.

33. (Currently Amended) The method of claim 29, wherein the information in the person's ~~medical record~~-EMR includes a list selected from one of the groups consisting of medications the person is currently taking or has recently taken, foods the person has consumed, the person's allergies to medications and genetic test information for the person.

34. (Currently Amended) The method of claim [[29]]31, wherein the response includes a listing of the match and the associated atypical clinical event, ~~and wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug food interaction, drug allergy interaction and a drug-gene interaction.~~

35. (Currently Amended) A computing system for preemptively determining the potential for atypical clinical event occurrence related to the administering of a medication to a person having an electronic medical record (EMR), the computer system comprising a processing device coupled to a computer storage medium, the computer storage medium having stored thereon a plurality of program components executable by the processing device, the program components comprising:

a receiving component that receives a list of possible medications that may be are administered prior to or during for a medical procedure;

a comparing component for comparing the medication list to information in a person's electronic medical record (EMR);

a determining component that determines whether a match exists between any of the medications included in the list and the medeical record EMR information, wherein the match relating to indicates the potential of drug-allergy reactions an atypical clinical event occurring if upon the associated medication were to be being administered to the person; and

the comparing component further configured to compare the medication list to the information in the person's electronic medical record (EMR) upon being passed through an association table, wherein the association table includes information regarding adverse affects caused by medications interacting with each other and caused by a medication and a food interacting with each other;

the determining component being further configured to determine whether at least one match exists between any of the medications included in the list and the EMR information passed through the association table, wherein the match indicates the potential of drug-drug or food-drug reactions occurring upon the associated medication being administered to the person; and

an outputting component that outputs a response relating to each match.

36. (Original) The system of claim 35, wherein the receiving component receives a list of possible medications that may be administered to a specific person scheduled to undergo a specific type of medical procedure, and wherein the comparing component compares the medication list to information in the specific medical record.

37. (Original) The system of claim 35, wherein the receiving component receives a list of possible medications that may be administered to any person scheduled to undergo a specific type of medical procedure, and further comprising a selecting component for selecting a person to undergo the medical procedure and receive at least one of the medications from the list of medications.

38. (Currently Amended) The computing system of claim 35, wherein determining component is further configured to select an atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.

39. (Original) The computing system of claim 35, wherein the list of possible medications received includes medications used in a medical procedure involving anesthesia.

40. (Original) The computing system of claim 35, wherein the list of possible medications received includes medications used in a radiologic medical procedure.

41. (Original) The computing system of claim 35, wherein the list of possible medications received includes medications used in a oncologic medical procedure.

42. (Currently Amended) The computing system of claim 35, further comprising a retrieving component that retrieves a specific person's medical record-EMR from a unified healthcare system, and wherein information in the medical record-EMR includes a list selected from one of the groups consisting of medications the person is currently taking or has recently taken, foods the person has consumed the person's allergies to medications and genetic test information for the person.

43. (Currently Amended) The computing system of claim [[35]]38, wherein the outputting component includes a display component that displays the outputted response as a listing of at least one of the matches and the associated atypical clinical event, and wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.

44. (Currently Amended) The computing system of claim [[44]]43, wherein the list of possible medications received includes a dosage amount for each medication in the list, and wherein the outputted response further includes an indication of the predicted severity of the atypical clinical event.

45. (Original) The computing system of claim 44, further comprising a selecting component for selecting a medication of the list of possible medications that is involved in the match, and wherein the display component displays information about the selected medication.

46. (Original) The computing system of claim 35, wherein the receiving component receives the list of possible medications to be administered over a communication network from a remote computing device.

47. (Canceled).

48. (Currently Amended) A computing system for preemptively determining the potential for atypical clinical event occurrence related to the administering of a medication to a person having an electronic medical record (EMR), the computer system comprising a processing device coupled to a computer storage medium, the computer storage medium having stored thereon a plurality of program components executable by the processing device, the program components comprising:

an accessing component that accesses a pre-defined list of possible medications that may be are administered prior to or during for a medical procedure;

a comparing component for comparing the medication list to information in a person's electronic medical record (EMR);

a determining component that determines whether a match exists between any of the medications included in the list and the medical record EMR information, wherein the match relating to indicating the potential of drug-allergy reactions an atypical clinical event occurring if upon the associated medication were to be being administered to the person; and

the comparing component further configured to compare the medication list to the information in the person's electronic medical record (EMR) upon being passed through an association table, wherein the association table includes information regarding adverse affects caused by medications interacting with each other and caused by a medication and a food interacting with each other;

the determining component being further configured to determine whether at least one match exists between any of the medications included in the list and the EMR information passed through the association table, wherein the match indicates the potential of drug-drug or food-drug reactions occurring upon the associated medication being administered to the person; and

an outputting component that outputs a response relating to each match.

49. (Currently Amended) The computing system of claim 48, wherein the determining component is further configured to select an atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.

50. (Original) The computing system of claim 48, wherein the list of possible medications received includes medications used in a medical procedure involving anesthesia.

51. (Currently Amended) The computing system of claim 48, further comprising a retrieving component that retrieves a specific person's medical record-EMR from a unified healthcare system, and wherein information in the medical record-EMR includes a list selected from one of the groups consisting of medications the person is currently taking or has recently taken, foods the person has consumed the person's allergies to medications and genetic test information for the person.

52. (Currently Amended) The computing system of claim [[48]]49, wherein the outputting component includes a display component that displays the outputted response as a listing of at least one of the matches and the associated atypical clinical event, and wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and a drug-gene interaction.

53. (Original) The computing system of claim 52, wherein the list of possible medications received includes a dosage amount for each medication in the list, and wherein the outputted response further includes an indication of the predicted severity of the atypical clinical event.

54. (Original) The computing system of claim 52, further comprising a selecting component for selecting a medication of the list of possible medications that is involved in the match, and wherein the display component displays information about the selected medication.

55. (Original) The computing system of claim 48, wherein the receiving component receives the list of possible medications to be administered over a communication network from a remote computing device.

56. (Canceled).

57. (Currently Amended) A ~~computer readable medium~~ Computer storage media containing computer-executable instructions ~~that, when executed, perform a method~~ for controlling a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record (EMR), the method comprising the steps of:

receiving a list of possible medications that ~~may be~~are to be administered prior to or during for a medical procedure;

comparing the medication list to information in a ~~the~~ person's electronic medical record (EMR); and

determining whether at least one match exists between any of the medications included in the list and the ~~record (EMR)~~ information, wherein the match ~~relating to~~ indicates the potential of ~~drug-allergy reactions~~ an atypical clinical event occurring if ~~upon~~ the associated medication were to be ~~being~~ administered to the person[[,]]; and if there is

~~comparing the medication list to the information in the person's electronic medical record (EMR) upon being passed through an association table, wherein the association table includes information regarding adverse affects caused by medications interacting with each other and caused by a medication and a food interacting with each other;~~

~~determining whether at least one match exists between any of the medications included in the list and the EMR information passed through the association table, wherein the match indicates the potential of drug-drug or food-drug reactions occurring upon the associated medication being administered to the person; and~~

~~upon determining a match exists, outputting a response relating to each match.~~

58. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 57, wherein receiving a list of possible medications comprises receiving a list of possible medications that may be administered to a specific person scheduled to undergo a specific type of medical procedure, and wherein comparing the medication list comprises comparing the medication list to information in the specific person's ~~EMR-medical record~~.

59. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 57, wherein receiving a list of possible medications comprises receiving a list of possible medications that may be administered to any person scheduled to undergo a specific type of medical procedure, and further comprising selecting a person to undergo the medical procedure and receive at least one of the medications from the list of medications.

60. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 57, wherein ~~the method further comprising selecting an~~ ~~the~~ atypical clinical event is ~~one selected~~ from the group consisting of a drug-drug interaction, drug-food interaction, a drug-allergy interaction, and a drug-gene interaction.

61. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 57, wherein the medical procedure includes any medical procedure requiring the use of anesthesia.

62. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 57, wherein the list of possible medications includes medications used in a medical procedure involving anesthesia.

63. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 57, wherein the list of possible medications includes medications used in a radiologic medical procedure.

64. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 57, wherein the list of possible medications includes medications used in a oncologic medical procedure.

65. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 57, wherein the information in the person's ~~medical record~~ EMR includes a list selected from one of the groups consisting of medications the person is currently taking or has recently taken, foods the person has consumed, the person's allergies to medications and genetic test information for the person.

66. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim [[57]]60, wherein the response includes a listing of the match and the associated atypical clinical event, ~~and wherein the atypical clinical event is one selected from the group consisting of a drug-drug interaction, drug-food interaction, drug-allergy interaction and drug-gene interaction.~~

67. (Currently Amended) The ~~computer readable medium computer storage media~~ of claim 66, wherein the list of possible medications includes a dosage amount for each medication in the list, and wherein the response further includes an indication of the predicted severity of the atypical clinical event.

68. (Currently Amended) The ~~computer-readable medium~~ computer storage media of claim 66, further comprising displaying information about at least one medication of the list of possible medications that is involved in the match upon selection of the medication at the response.

69. (Currently Amended) The ~~computer-readable medium~~ computer storage media of claim 57, wherein the list of possible medications is received over a communication network from a remote computing device.

70. (Currently Amended) The ~~computer-readable medium~~ computer storage media of claim 57, further comprising:

selecting the person from a list of person's scheduled for a medical procedure; and

retrieving the person's EMR ~~medical record~~ prior to comparing the medication list to information in the person's EMR ~~medical record~~.

71. (Canceled).

72. (Canceled).

73. (Currently Amended) A ~~computer-readable medium~~ Computer storage media containing computer-executable instructions that, when executed, perform a method for controlling a computing system for preemptive determination of the potential for atypical clinical event occurrence related to the administering of at least one medication to a person having an electronic medical record (EMR), the method comprising the steps of:

accessing a pre-defined list of possible medications that may be ~~are~~ administered prior to ~~or during~~ for a medical procedure;

comparing the medication list to information in ~~a-the person's electronic medical record (EMR); and~~

~~determining whether at least one match exists between any of the medications included in the list and the record (EMR) information, wherein the match relating to indicates the potential of drug-allergy reactions an atypical clinical event occurring if upon the associated medication were to be being administered to the person[.]); and if there is~~

~~comparing the medication list to the information in the person's electronic medical record (EMR) upon being passed through an association table, wherein the association table includes information regarding adverse affects caused by medications interacting with each other and caused by a medication and a food interacting with each other;~~

~~determining whether at least one match exists between any of the medications included in the list and the EMR information passed through the association table, wherein the match indicates the potential of drug-drug or food-drug reactions occurring upon the associated medication being administered to the person; and~~

upon determining a match exists, outputting a response relating to each match.